For SN 10/766,981
9/7/2006

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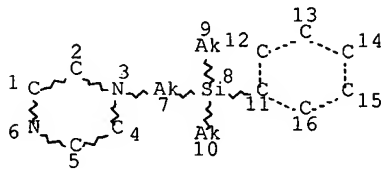

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=> d l4 1-5 ibib abs hitstr hitind

L4   ANSWER 1 OF 5  HCAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2002:594901  HCAPLUS  Full-text
DOCUMENT NUMBER:          137:140940
TITLE:                    Polymers based on N-carbamyl-N'-dimethylsilyl
                          methyl-piperazine traceless linkers for the
                          solid phase synthesis of phenyl-based libraries
INVENTOR(S):              Cereda, Enzo; Pellegrini, Carlo Maria; Quai,
                          Monica; Barbaglia, Walter
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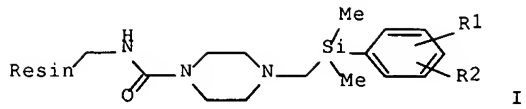
PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany
SOURCE: PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002060960	A2	20020808	WO 2002-EP312	200201 15
WO 2002060960	A3	20021017		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2431927	AA	20020808	CA 2002-2431927	200201 15
EP 1360211	A2	20031112	EP 2002-703549	200201 15
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004518015	T2	20040617	JP 2002-561527	200201 15
US 2002120072	A1	20020829	US 2002-58433	200201 28
US 6740712	B2	20040525		
US 2004186243	A1	20040923	US 2004-766981	200401 29

PRIORITY APPLN. INFO.:	EP 2001-101946	A	200101 29
	US 2001-273312P	P	200103 02
	WO 2002-EP312	W	200201 15
	US 2002-58433	A3	200201 28

OTHER SOURCE(S): MARPAT 137:140940
GI



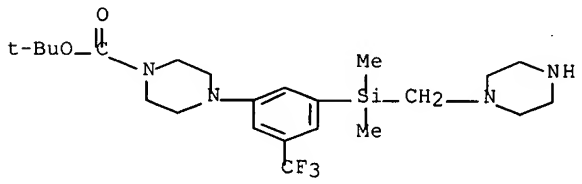
I

AB Polymers contg. silicon linkers based on the carbamyl piperazine moiety I [Resin = (divinylbenzene - or polyethylene glycol-crosslinked) polystyrene; R1 = H, C1-6-alkyl, C2-6-alkenyl, C2-6-alkynyl, C1-6-alkoxy, halogen, NO2, CF3; R2 = hydroxy, amino, formyl, nitrogen heterocycle] are prepd. for use in the solid phase synthesis of compds. or libraries of compds. embracing a Ph ring in their structure. A polymer was prepd. from isocyanate-modified polystyrene and 1-[[[3-(1,3-dioxolan-2-yl)-phenyl]-dimethylsilyl]- methyl]-piperazine.

IT **444727-18-8DP**, polymer-supported **444727-19-9DP**, polymer-supported **444727-20-2DP**, polymer-supported **444727-21-3DP**, polymer-supported
RL: IMF (Industrial manufacture); PREP (Preparation)
(polymers based on N-carbamyl-N'-dimethylsilyl methyl-piperazine traceless linkers for the solid phase synthesis of phenyl-based libraries)

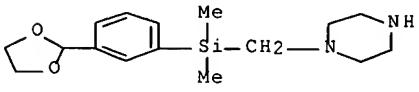
RN 444727-18-8 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[3-[dimethyl(1-piperazinylmethyl)silyl]-5-(trifluoromethyl)phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



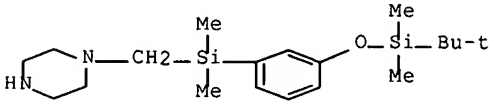
RN 444727-19-9 HCAPLUS

CN Piperazine, 1-[[[3-(1,3-dioxolan-2-yl)phenyl]dimethylsilyl]methyl]- (9CI) (CA INDEX NAME)



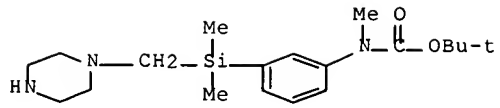
RN 444727-20-2 HCAPLUS

CN Piperazine, 1-[[[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]phenyl]dimethylsilyl]methyl]- (9CI) (CA INDEX NAME)



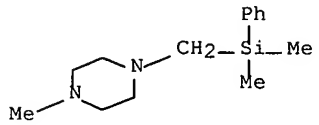
RN 444727-21-3 HCAPLUS

CN Carbamic acid, [3-[dimethyl(1-piperazinylmethyl)silyl]phenyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



IC ICM C08F008-42
ICS C08G065-32
CC 35-8 (Chemistry of Synthetic High Polymers)
IT **444727-18-8DP**, polymer-supported **444727-19-9DP**, polymer-supported **444727-20-2DP**, polymer-supported **444727-21-3DP**, polymer-supported
RL: IMF (Industrial manufacture); PREP (Preparation)
(polymers based on N-carbamyl-N'-dimethylsilyl methyl-piperazine traceless linkers for the solid phase synthesis of phenyl-based libraries)

L4 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1996:679859 HCAPLUS Full-text
DOCUMENT NUMBER: 126:8175
TITLE: Reductive carbon-sulfur bond cleavage: a simple pathway to nonstabilized (lithiomethyl)amines
AUTHOR(S): Strohmann, Carsten; Abele, Bors Cajus
CORPORATE SOURCE: Dipl. Chem. B. C. Abele, Univ. Im Stadtwald, Saarbruecken, D-66041, Germany
SOURCE: Angewandte Chemie, International Edition in English (1996), 35(20), 2378-2380
CODEN: ACIEAY; ISSN: 0570-0833
PUBLISHER: VCH
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 126:8175
AB A simple pathway to nonstabilized mono(lithiomethyl)amines, e.g., LiCH2NEt2, that are not substituted on the α-carbon atom, by reductive C-S bond cleavage is described. The use of these synthetic building blocks in the construction of org. and organoelement compds. is also described.
IT **183873-60-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(simple pathway to nonstabilized (lithiomethyl)amines and their use in prepn. of org. and organoelement compds.)
RN 183873-60-1 HCAPLUS
CN Piperazine, 1-[(dimethylphenylsilyl)methyl]-4-methyl- (9CI) (CA INDEX NAME)



CC 29-6 (Organometallic and Organometalloidal Compounds)
IT 21579-78-2P 54926-36-2P 87625-35-2P 104017-39-2P
110503-25-8P 125263-07-2P 159329-87-0P **183873-60-1P**
183873-61-2P 183873-62-3P 183873-63-4P 183873-64-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(simple pathway to nonstabilized (lithiomethyl)amines and their use in prepn. of org. and organoelement compds.)

L4 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1992:241938 HCAPLUS Full-text

DOCUMENT NUMBER: 116:241938
TITLE: Pharmaceutical compositions containing organosilane derivatives as muscle relaxants and antiparkinsonism agents
INVENTOR(S): Farkas, Sandor; Foldeak, Sandor; Karpati, Egon; Hegyes, Peter; Kreidl, Janos; Szporny, Laszlo; Czibula, Laszlo; Vass Petofi, Szilvia
PATENT ASSIGNEE(S): Richter, Gedeon, Vegyeszeti Gyar Rt., Hung.
SOURCE: Eur. Pat. Appl., 7 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 472304	A2	19920226	EP 1991-306935	199107 29
EP 472304	A3	19920422		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
HU 58205	A2	19920228	HU 1990-4646	199007 27
HU 206625	B	19921228		
JP 04270223	A2	19920925	JP 1991-276053	199107 29
PRIORITY APPLN. INFO.:			HU 1990-4646 A	199007 27

OTHER SOURCE(S): MARPAT 116:241938
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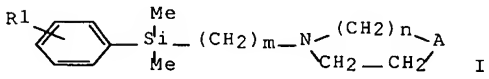
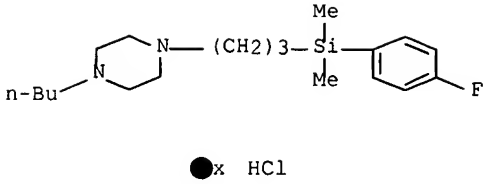


I

AB Pharmaceutical compns. contg. title compds. [I; R1=H, halogen; A=O, CH2, NR(R=H, C1-4 alkyl); m=1-3, n=1-2] are useful as muscle relaxants and antiparkinsonism agents. Chloromethyldimethylphenylsilane was refluxed with piperidine, and the oily residue thus produced was reacted with fumaric acid to obtain N-[dimethyl-phenylsilyl)methyl]piperidine fumarate (II). The ED50 of II in Straub's tail test in mice was 30.7 mg/kg i.p. A tablet contained II 50, gelatin 3, Mg stearate 2, talc 5, starch 45, and lactose 95mg.

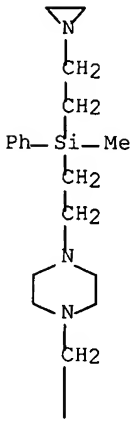
IT **141497-22-5P**
RL: PREP (Preparation)
(prepn. of, as muscle relaxant, pharmaceutical compn. contg.)
RN 141497-22-5 HCAPLUS
CN Piperazine, 1-butyl-4-[3-[(4-fluorophenyl)dimethylsilyl]propyl]-, hydrochloride (9CI) (CA INDEX NAME)



IC ICM A61K031-695
CC 63-6 (Pharmaceuticals)
Section cross-reference(s): 1
IT 141497-14-5P 141497-15-6P 141497-16-7P 141497-18-9P
141497-19-0P 141497-20-3P 141497-21-4P **141497-22-5P**
RL: PREP (Preparation)
(prepn. of, as muscle relaxant, pharmaceutical compn. contg.)

L4 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1969:28985 HCAPLUS Full-text
DOCUMENT NUMBER: 70:28985
TITLE: Thermal conversions of β-(N-ethylenimino)ethylsilanes
AUTHOR(S): Nametkin, N. S.; Perchenko, V. N.; Grushevenko, I. A.
CORPORATE SOURCE: Inst. Neftekhim. Sin. im. Topchieva, Moscow, USSR
SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1968), (9), 2078-81
CODEN: IASKA6; ISSN: 0002-3353
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB Et2Si(CH2CH2R)2 (R = 1-aziridinyl) heated 5 hrs. at 300° gave 90% viscous yellow oil, contg. the ethylenimine ring and piperazine ring bands in the ir spectrum; evidently the product was I. In 8 hrs. this reaction gave a product devoid of aziridinyl rings and insol. in C6H6; this was probably a cross-linked modification of I. Heated at 250° 3 hrs. MePhSi(CH2CH2R)2 similarly gave a yellow oil of type I, while in 5 hrs. a similar product but with higher mol. wt. was formed, and in 8 hrs. infusible solid was produced. Heated at 300° 5 hrs. Et3SiCH2CH2R gave 70% product, b2 59-62°, and 24% product, b2 140-85°; the latter was crude linear dimer similar to I, b2 155-62°, n20D 1.4740, and its isomer, b2 178-81°, 1.4800, which was evidently a cyclic dimer, whose ir spectrum was comparable to that of reaction product of Et3SiCH:CH2 with the di-Li deriv. of piperazine. The residues gave a product, b2 190-205°, which had only the opened aziridine ring and had the compn. C30H72Si3N3. 1,4-Bis(triethylsilylethyl)-piperazine heated at 300° 5 hrs. gave no evidence of change. Me2PhSiCH2CH2R heated at 250° 5 hrs. gave 24% linear and cyclic dimers, b1 230-2°, which were inseparable by distn.
IT **20933-04-4P 22337-25-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 20933-04-4 HCAPLUS
CN Piperazine, 1,4-bis[2-[[2-(1-aziridinyl)ethyl]methylphenylsilyl]ethyl]- (8CI) (CA INDEX NAME)

PAGE 1-A



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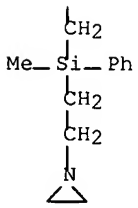
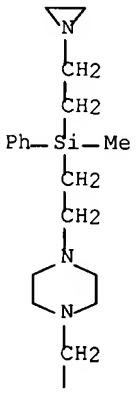


RN 22337-25-3 HCAPLUS
CN Piperazine, 1,4-bis[2-[[2-[4-[2-[[2-(1-aziridinyl)ethyl]methylphenylsilyl]ethyl]-1-piperazinyl]ethyl]methylphenylsilyl]ethyl]- (8CI) (CA INDEX NAME)

PAGE 1-A



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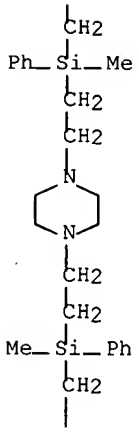

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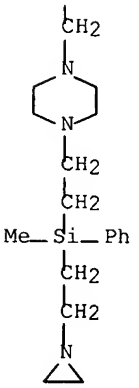


CC 29 (Organometallic and Organometalloidal Compounds)
IT 4215-81-0P 4215-82-1P 20933-03-3P **20933-04-4P**
22337-25-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

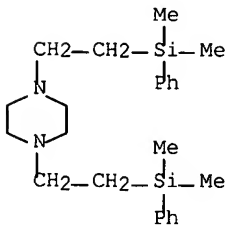
L4 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1965:431791 HCAPLUS Full-text
DOCUMENT NUMBER: 63:31791
ORIGINAL REFERENCE NO.: 63:5668g-h,5669a
TITLE: Transformations of β-N-ethyleniminoethylsilanes at elevated temperatures and in the presence of nucleophilic and electrophilic reagents
AUTHOR(S): Nametkin, N. S.; Grushevenko, I. A.; Perchenko, V. N.
SOURCE: Doklady Akademii Nauk SSSR (1965), 162(2), 347-9
CODEN: DANKAS; ISSN: 0002-3264
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB R3SiCH2CH2N(CH2)2 were unchanged after 5 hrs. at 200° while at 250-300° they gave much material resulting from ring opening reactions; thus were formed polymers of type [-N(CH2CH2SiR3)CH2CH2-]x and dimers of type R3Si CH2CH2N(CH2CH2)2NCH2CH2SiR3 (I). Et3SiCH2CH2N(CH2)2 and NaI in Me2CO gave in 5 hrs. refluxing 22-50% I (R = Et), b1 182-

3°, n20D 1.4805, d20 0.8878. Similarly was obtained the product with R3 = (Me2, Ph), m. 31-2°. Similar reaction with catalytic amt. of AlCl3 in heptane gave in 1 hr. up to 90% I; similar treatment of PhCH2CH2N(CH2)2 with AlCl3 gave a polymer [-CH2CH2N(CH2CH2Ph)-]5. Thus either nucleophilic or electrophilic reagents convert these silylethylenimines into I as the sole identifiable products.

IT **2288-06-4**, Piperazine, 1,4-bis[2-(dimethylphenylsilyl)ethyl]-
(prepn. of)

RN 2288-06-4 HCAPLUS

CN Piperazine, 1,4-bis[2-(dimethylphenylsilyl)ethyl]- (7CI, 8CI) (CA INDEX NAME)



CC 39 (Organometallic and Organometalloidal Compounds)

IT 2287-74-3, Piperazine, 1,4-bis[2-(triethylsilyl)ethyl]-
2288-06-4, Piperazine, 1,4-bis[2-(dimethylphenylsilyl)ethyl]-
(prepn. of)

=>